



1681/561
GCA GGG TCG GAG AGC GCA CGA GGG AGC TTC CAG GCG GAA ACG CCT GGT ATC TTT
1741/581
ATA GTC CTG TCG GGT TTC GCC ACC TCT GAC TTG AGC GTC GAT TTT TGT GAT GGT CGT CAG
1801/601
GGG GGC GGA GCC TAT GGA AAA ACG CCA GCA ACG CGG CCT TTT TAC GGT TCC TGG CCT TTT
1861/621
GCT GGC CTT TTG CTC ACA TGT TCT TTC CTG CGT TAT CCC CTG ATT CTG TGG ATA ACC GTA
1921/641
TTA CCG CCT TTG AGT GAG CTG ATA CCG CTC GCG GCA GCC GAA CGA CCG AGC GCA GCG AGT
leu pro pro leu ser glu leu ile pro leu ala ala ala glu arg pro ser ala ala ser (SEQ ID NO:25)
1981/661
CAG TGA GCG AGG AAG CGG AAG AGC GCC CAA TAC GCA AAC CGC CTC TCC CCG CGC GTT GGC
gln OPA ala arg lys arg lys ser ala gln tyr ala asn arg leu ser pro arg val gly (SEQ ID NO:26)
2041/681
CGA TTC ATT AAT GCA GCT GGC ACG ACA GGT TTC CCG ACT GGA AAG CGG GCA GTG AGC GCA
arg phe ile asn ala ala gly thr thr gly phe pro thr gly lys arg ala val ser ala
2101/701
ACG CAA TTA ATG TGA GTT AGC TCA CTC ATT AGG CAC CCC AGG CTT TAC ACT TTA TGC TTC
2161/721
CGG CTC GTA TGT TGT GTG GAA TTG TGA GCG GAT AAC AAT TTC ACA CAG GAA ACA GCT atg
met (SEQ ID NO:14)
2221/741
acc atg att acg cca agc ttg AAG GAT CAT CTC ATC CAC AAT GTC CAC AAA GAG GAG CAC
thr met ile thr pro ser leu lys asp his leu ile his asn val his lys glu glu his
2281/761
GCT CAT GCC CAC AAC AAG ATC GAT att gtc gga gga agt gac tcc aga gaa gga gcc tgg
ala his ala his asn lys ile asp ile val gly gly ser asp ser arg glu gly ala trp
2341/781
cct tgg gtc gtt gct ctg tat ttc gac gat caa cag gtc tgc gga gct tct ctg gtg agc
pro trp val val ala leu tyr phe asp asp gln gln val cys gly ala ser leu val ser
2401/801
agg gat tgg ctg gtg tgg gcc gcc cac tgc gtg tac ggg aga aat atg gag ccg tct aag
arg asp trp leu val ser ala ala his cys val tyr gly arg asn met glu pro ser lys
2461/821
tgg aaa gca gtg cta ggc ctg cat atg gca tca aat ctg act tct cct cag ata gaa act
trp lys ala val leu gly leu his met ala ser asn leu thr ser pro gln ile glu thr
2521/841
agg ttg att gac caa att gtc ata aac cca cac tac aat aaa cgg aga aag aac aat gac
arg leu ile asp gln ile val ile asn pro his tyr asn lys arg arg lys asn asn asp
2581/861
att gcc atg atg cat ctt gaa atg aaa gtg aac tac aca gat tat ata cag cct att tgt
ile ala met met his leu glu met lys val asn tyr thr asp tyr ile gln pro ile cys
2641/881
tta cca gaa gaa aat caa gtt ttt ccc cca gga aga att tgt tct att gct ggc tgg ggg
leu pro glu glu asn gln val phe pro pro gly arg ile cys ser ile ala gly trp gly
2701/901
gca ctt ata tat caa ggt tct act gca gac gta ctg caa gaa gct gac gtt ccc ctt cta
ala leu ile tyr gln gly ser thr ala asp val leu gln glu ala asp val pro leu leu
2761/921
tca aat gag aaa tgt caa caa cag atg cca gaa tat aac att acg gaa aat atg gtg tgt
ser asn glu lys cys gln gln gln met pro glu tyr asn ile thr glu asn met val cys
2821/941
gca ggc tat gaa gca gga ggg gta gat tct tgt cag ggg gat tca ggc gga cca ctc atg
ala gly tyr glu ala gly gly val asp ser cys gln gly asp ser gly gly pro leu met
2881/961
tgc caa gaa aac aac aga tgg ctc ctg gct ggc gtg acg tca ttt gga tat caa tgt gca
cys gln glu asn asn arg trp leu leu ala gly val thr ser phe gly tyr gln cys ala
2941/981
ctg cct aat cgc cca ggg gtg tat gcc cgg gtc cca agg ttc aca gag tgg ata caa agt
leu pro asn arg pro gly val tyr ala arg val pro arg phe thr glu trp ile gln ser
3001/1001
ttt cta cat GAG CTC GTA ATT AGC TGA GAA TTC ACT GGC CGT CGT TTT ACA ACG TCG TGA
phe leu his glu leu val ile ser OPA glu phe thr gly arg arg phe thr thr ser OPA (SEQ ID NO:27)